

FIG. 1

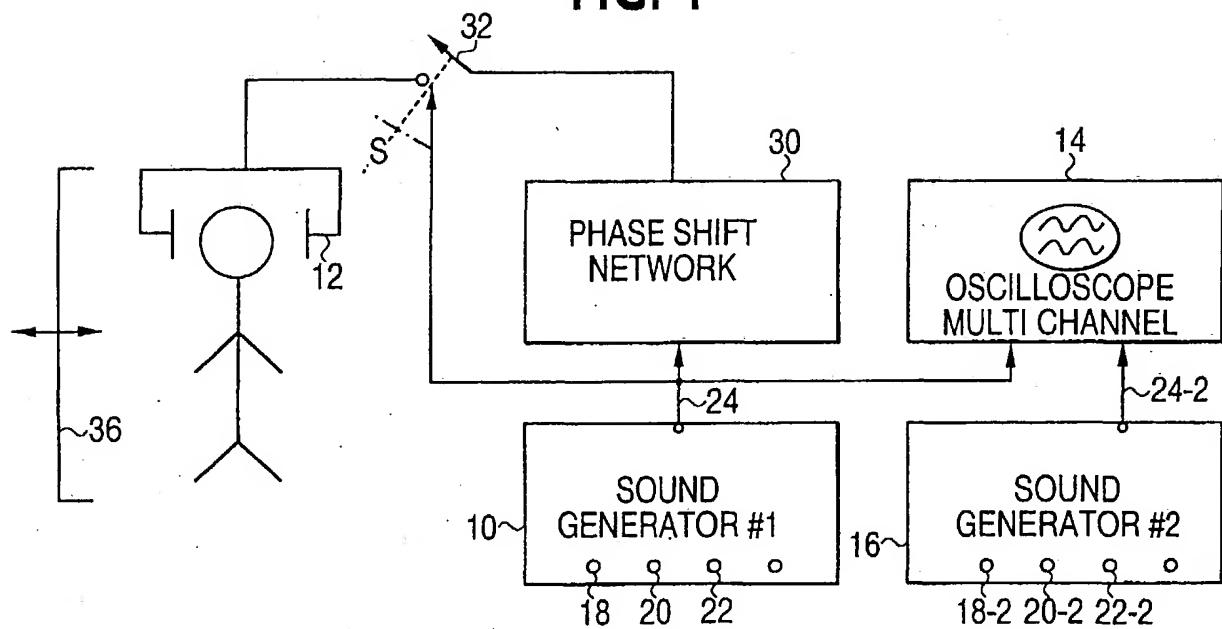


FIG. 2

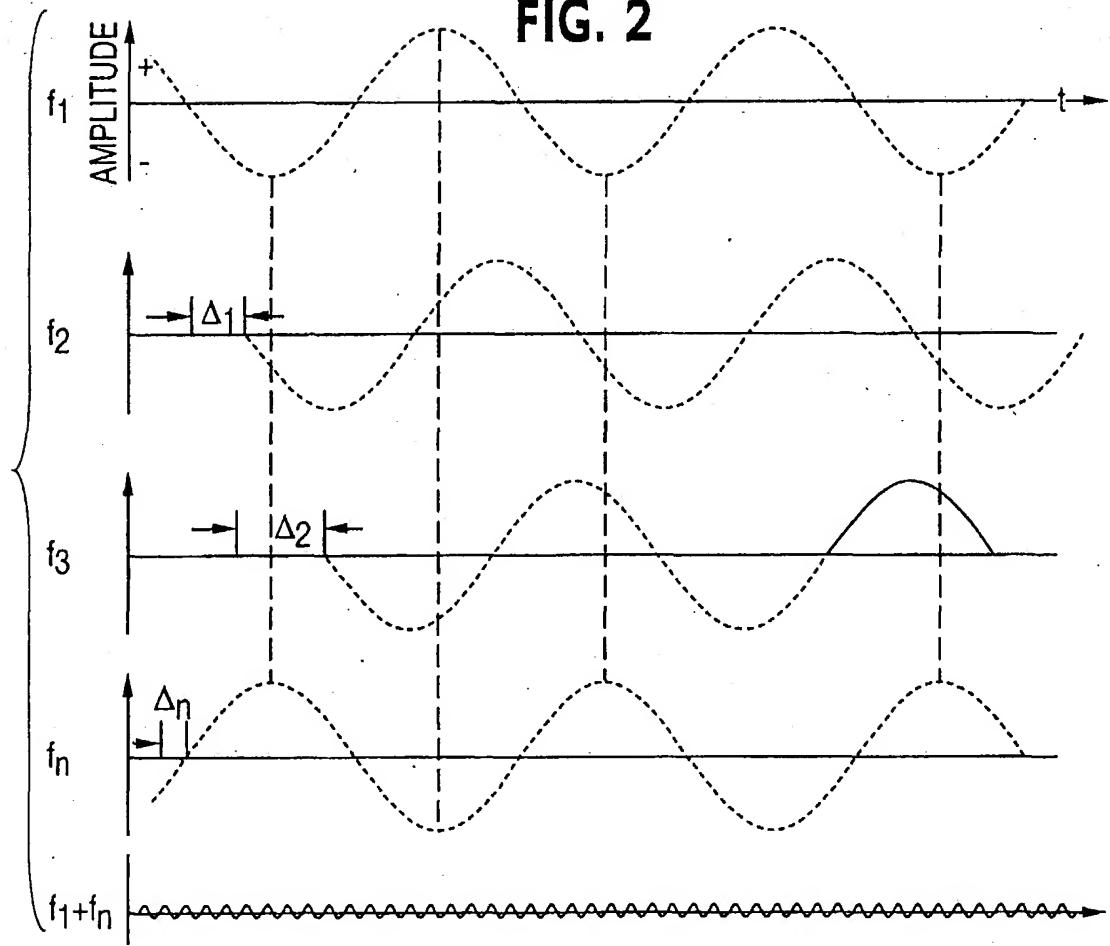


FIG. 3

STEP 1 SCREEN TINNITUS PATIENTS FOR ELIGIBILITY FOR PHASE-SHIFT TREATMENT ACCORDING TO MATTP OR EQUIVALENT MEDICAL PROTOCOL.

STEP 2 SELECTED MONOFREQUENCY PATIENTS ARE INSTRUCTED TO SUBJECTIVELY "SOUND-TYPE" HIS/HER TINNITUS SOUND FREQUENCY UTILIZING AN ADJUSTABLE SOUND WAVE GENERATOR TO MATCH, ON A BLIND BASIS, HIS/HER TINNITUS TONE.

STEP 3 PATIENTS ARE INSTRUCTED TO SUBJECTIVELY MATCH, ON A BLIND BASIS, THE AMPLITUDE (LOUDNESS) OF THE OUTPUT OF THE SOUND GENERATOR WITH THE LOUDNESS OF HIS/HER TINNITUS TONE.

STEP 4 PATIENTS REPEAT STEPS 2 AND 3 A PLURALITY OF TIMES (E.G. 5) TO ENSURE THE ACCURACY OF THE PATIENT'S SUBJECTIVE "SOUND TYPING", E.G. MATCHING THE OUTPUT OF THE FREQUENCY AND AMPLITUDE WITH THE TINNITUS TONE SIGNAL.

STEP 5 THE SOUND-TYPE MATCHED TONE IS CONVERTED TO A GENERATED SINE WAVE (f_1) WITH THE TINNITUS FREQUENCY AND AMPLITUDE DESIGNATED IN ACCORDANCE WITH STEPS 2-3-4.

STEP 6 THE PHASE OF THE GENERATED SINE WAVE TONE (f_1) IS TIME SHIFTED THROUGH A PLURALITY OF PRE-DETERMINED INCREMENTS THROUGH 180 DEGREES SO THAT THE GENERATED SINE WAVE (f_1) IS BROUGHT THROUGH SUCH PHASE SHIFTING INTO A RECIPROCAL RELATIONSHIP WITH THE PATIENT SUBJECTIVE SOUND TYPE TINNITUS TONE (f_1) OF THE SAME FREQUENCY AND AMPLITUDE DESPITE THE UNKNOWN TRUE PHASE RELATIONSHIP BETWEEN SAID TINNITUS TONE (f_1) AND THE GENERATED SINE WAVE TONE (f_1).

STEP 7 THE GENERATED SINE WAVE TONE(f_1) IN ITS TIME SHIFTED FORM, E.G. THROUGH A PREDETERMINED SERIES OF INCREMENTS TOTALING 180 DEGREES IS APPLIED TO THE TINNITUS PATIENT THROUGH HIGH QUALITY EARPHONES, AND

STEP 8 THE PATIENT IS INSTRUCTED TO PERIODICALLY RECORD HIS/HER SUBJECTIVE DETERMINATIONS OF THE STATUS OF HIS/HER TINNITUS SOUND FIRST IMMEDIATELY AFTER THE TREATMENT AND THEREAFTER TWICE DAILY WITH REGARD TO LOUDNESS ON A PREDETERMINED SCALE, E.G. 1 = 0, 5 = MILD AND 10 = MAXIMUM. THE DAILY DIARY IS USED IN PLANNING SUBSEQUENT PHASE-SHIFT TREATMENT PROCEDURES.